

WHAT IS CLAIMED IS:

1. A radiation image sensing apparatus comprising:

5 an image sensing unit which is capable of non-destructive reading, adapted to sense an object image by allowing radiation from a radiation source to pass through an object; and

10 a control circuit adapted to perform control to stop emission of radiation from the radiation source on the basis of a signal obtained from said image sensing unit by non-destructive reading in the image sensing operation.

15 2. An apparatus according to claim 1, further comprising a switching circuit adapted to switch reading modes of said image sensing unit, said switching circuit switching the reading mode of said image sensing unit to a non-destructive reading mode in the image sensing operation.

20 3. An apparatus according to claim 1, wherein said image sensing unit includes a pixel portion including a photoelectric conversion element and a reading transistor, the photoelectric conversion element of the pixel portion being connected to a
25 control terminal of the reading transistor.

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load is a constant current source or a resistor.

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12. An apparatus according to claim 8, wherein said control circuit includes an addition circuit adapted to add outputs from said image sensing means.

5 13. An apparatus according to claim 12, wherein the addition circuit performs weighted addition based on a reference pattern.

10 14. An apparatus according to claim 13, wherein the reference pattern is generated on the basis of the pattern recognition result.

15 15. An apparatus according to claim 1, further comprising a difference circuit adapted to obtain a radiation image sensing output by subtracting an output from said image sensing unit which is obtained before emission of radiation from an output from said image sensing means which is obtained after emission of radiation from the radiation source is stopped.

20 16. An image sensing method for a radiation image sensing apparatus including an image sensing unit which is capable of non-destructive reading and adapted to sense an object image by allowing radiation from a radiation source to pass through an object, comprising
25 the step of performing control to stop emission of radiation from the radiation source on the basis of a

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signal obtained from said image sensing unit by
non-destructive reading in the image sensing operation.

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